

FIG.1

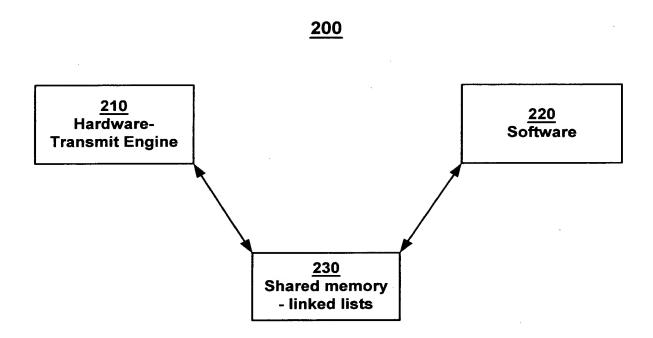


FIG. 2

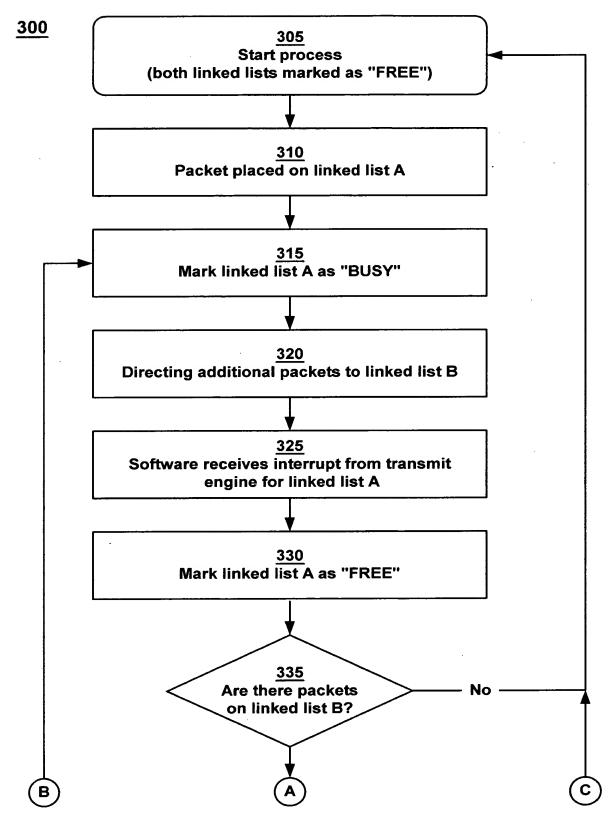


FIG. 3A

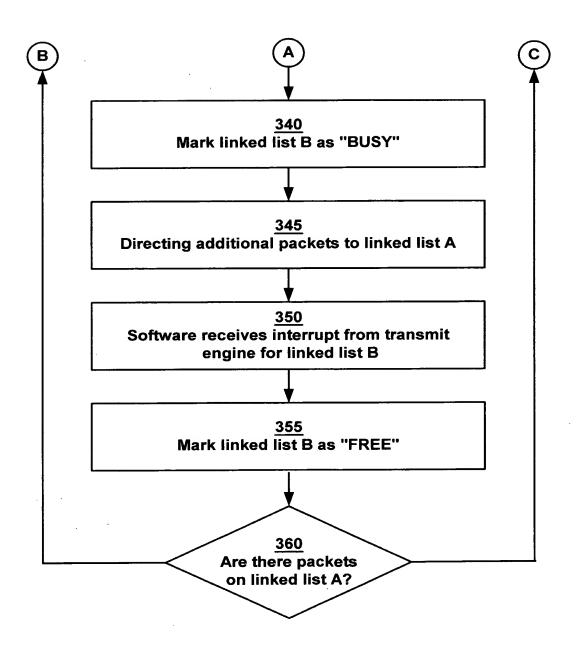


FIG. 3B

INITIAL CONDITION

SOFTWARE LISTS

LIST A

FREE

FREE

TRANSMIT ENGINE

LIST B

FREE



AS FLOW CONTINUES

SOFTWARE LISTS

SOFTWARE SENDS ONE PACKET

LIST A BUSY
FREE

PROGRAM ADDRESS OF LIST A

LIST B

FREE

BUSY WITH LIST A

TRANSMIT ENGINE

BUSY WITH LIST A

7/10

TRANSMIT ENGINE WORKING ON LIST A, SOFTWARE WANTS TO SEND MORE PACKETS

SOFTWARE LISTS LIST A BUSY BUSY WITH LIST A SOFTWARE PUTS ALL PACKETS IN LIST B LIST B FREE TRANSMIT ENGINE BUSY WITH LIST A BUSY WITH LIST A

BUSY WITH LIST A

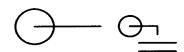
8/10

HARDWARE ISSUES INTERRUPT FOR BUSY LIST

SOFTWARE LISTS

TRANSMIT ENGINE

LIST A BUSY



INTERRUPT FOR LIST A

SOFTWARE MARKS LIST A AS FREE AND LIST B AS BUSY.

TRANSMIT ENGINE BUSY WITH LIST B

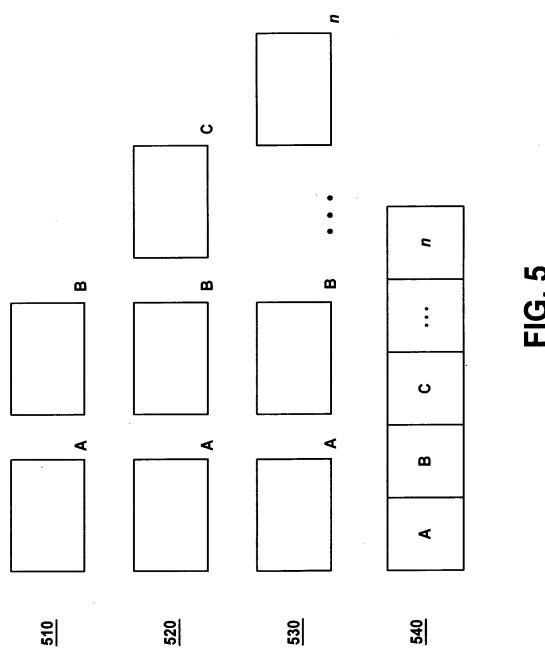
SOFTWARE PROGRAMS ADDRESS OF LIST B TO TRANSMIT ENGINE.

9/10

HARDWARE WORKING ON LIST B and SOFTWARE WANTS TO SEND MORE PACKETS

SOFTWARE LISTS LIST A FREE WORKING ON LIST B LIST B BUSY WORKING ON LIST B

FIG. 4E



200